

ALGEBRA 2 REVIEW PART 2

$$16 \quad (-2t)(5) = -10t$$

$$\begin{aligned} 17. \quad \frac{-7+35b}{-7} &= \frac{-7 \cdot 1 + 7 \cdot 5b}{-7} = \\ &= \frac{\cancel{-7}(1-5b)}{\cancel{-7}} = 1-5b \end{aligned}$$

$$18. \quad \begin{array}{rcl} -4.8x + 2.2 & = & 11.7x - 11.7 \\ +4.8x & & +4.8x \end{array}$$

$$\begin{array}{rcl} 2.2 & = & 16.5x - 11.7 \\ +11.7 & & +11.7 \end{array}$$

$$\frac{13.9}{16.5} = \frac{16.5x}{16.5}$$

$$x = \frac{13.9}{16.5} \approx 0.84$$

$$19. \quad 1 = 2(x-2) + 4 - x$$

$$1 = 2x - \cancel{4} + \cancel{4} - x$$

$$1 = 2x - x$$

$$1 = x$$

$$x = 1$$

$$20. \quad C = 2\pi r \quad C = 155 \text{ cm}$$

$$r = ?$$

$$r = \frac{C}{2\pi} = \frac{155}{2 \cdot 3.14} = \frac{155}{6.28} \approx 24.68 \text{ cm}$$

$$21. \quad \begin{array}{cc} \text{miles} & \text{minutes} \end{array}$$

$$\frac{3}{x} = \frac{27}{117}$$

$$\frac{27x}{27} = \frac{351}{27}$$

$$x = \frac{351}{27} = 13 \text{ mi}$$

22. 18% $\frac{18}{100} = \frac{9}{50}$

23. $64 \cdot 0.35 = 22.4$

24. $82^{\circ}\text{F} - \text{mode}$

25. $\$130 - \$80 = 50$

26. 4

27. MIN = 15 C, D
MAX = 27

THEN, ENTER NUMBERS
FOR C UNDER L_1 , NUMBERS
FOR D UNDER L_2

BUILD BOX-AND-
WHISKER PLOT, USE TRACE

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$$1: x_1 = -7 \quad y_1 = -7$$

$$2: x_2 = 4 \quad y_2 = -4$$

$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{-4 - (-7)}{4 - (-7)} = \frac{-4 + 7}{4 + 7} = \frac{3}{11}$$

29.

$$x_1 = 2 \quad y_1 = -11$$

$$x_2 = -6 \quad y_2 = -12$$

$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{-12 - (-11)}{-6 - 2} =$$

$$= \frac{-12 + 11}{-8} = \frac{1}{8}$$

30. y-INTERCEPT

$$= -3$$

$$m = -5$$

$$y = -5x - 3$$